M.Sc. BOTANY Fourth Semester ANGIOSPERM TAXONOMY (MSB – 402 C)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20 Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins. Marks: 50

Answer any four from Question no. 2 to 8 Question no. 1 is compulsory.

- 1. What is type concept? Write a note on different kinds of types. (2+8=10)
- 2. Write briefly about the aims and objectives of BSI. Add a note on publications of BSI. (5+5=10)
- 3. What is synonym? With example explain the different kinds of synonyms. What is the status if a synonym of a species in nomenclature? (2+5+3=10)
- 4. Write about the aim and objectives of Biosystematics. How Biosystematics differs from traditional taxonomy? (5+5=10)
- 5. Define Herbarium. What are the different kinds of Herbarium? What are the functions of Herbarium? (2+4+4=10)
- 6. What do you mean by Characters? Discuss about correlation of characters, synthetic characters and analytical characters. (1+3+3+3=10)
- 7. Write briefly about the Adansonian and Neo Adansonian's Principles. (5+5=10)
- 8. Write a critical account on application of embryological features in taxonomy. (10)

2017/06

M.Sc. BOTANY

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Du	ration: 20 minutes		A - Objective Type)	Marks – 20
1. (Choose the correct answer:			1×20=20
a.		own as: ii) Lectotype iv) Isotype	е .	
b. _	The classification of Benthuri) Species Plantarum iii) Die Naturlichen Pflanzer		ter was published in: ii) Genera Plantarum iv) Systema Naturale	
c.	One of the best methods for i) Cytotaxonomy iii) Numerical Taxonomy	understandi	ng the general relationship ii) Experimental Taxonom iv) Chemotaxonomy	
d.		M) is located ii) Jorhat iv) Itanagar	l at:	
e.			olutionary rates and trends onomy	
f.	Which among the following classification? i) Gymnosperms are placed ii) Gymnosperms are placed iii) Dicotyledons are placed iv) Dicotyledons are placed iv)	between Mo among Dice before Mon	onocotyledons and Dicotyle otyledons. ocotyledons.	
g.		ii) A species iv) Á taxono	s omic category of any rank	
h.	In Melbourne Code one of the i) Made obligatory to describe ii) Made obligatory to describe iii) Made obligatory to describe) One can describe a new to	be a new tax be a new tax ibe a new ta	on in Latin. xon in English. xon in French.	nclature is:

i.	Botanical Survey was reorg i) 1954 ii) 1948	ganized in: iii) 1950	iv) 1952
j.	Indian Botanic Garden(IBC i) Robert Kyd iii) William Roxburgh	G) at was established by: ii) George King iv) N.Wallich	
k.	In Numerical Taxonomy B i) Two divergent characters ii) Two convergent charact iii) Two contrasting states of iv) None of the above.	ers.	
1.	"Stammbaum" is a term us i) Protein taxonomy iii) Cladestic analysis	ii) Serotaxonomy	
m.	Classification of organisms i) Numerical taxonomy iii) Biosystematics	based on evolutionary as ii) Phenetics iv) Cladistics	well as genetic relationships is called:
n.	A genus have only species i) Monotype iii) Polytypic	is called: ii) Unispecific iv) None of these	
0.	One of the most important i) One can observe tropical ii) They provide the natural iii) They allow ex-situ cons iv) They provide a beautifu	plants there. I habitat for wild life. servation of germplasm.	dens is that:
p.	The evolutionary history or i) Ontogeny iii) Phenology	n any group of organism is ii) Phylogency iv) Affinity	s termed:
q.	The new Systematics introd i) Biosystematics iii) Phenitics	duced by Sir Julian Huxle ii) Cladistics iv) Numerical taxonomy	y in 1940 is known as:
r.	Arrange the following in the i) Kingdom – Phylum – Claii) Kingdom – Family – Geiii) Kingdom – Order – Speiv) Species – Genus – Family	ass — Order — Family — Ge nus — Species — Class — P ecies — Genus — Class — Fa	nus – Species hylum – Order nmily – Phylum
S.	Classical taxonomy is also i) Beta taxonomy iii) Descriptive taxonomy	ii) Systematic Botany	omy

- t. Practical purpose of taxonomy or classification:
 - i) To know the evolutionary history.
 - ii) To explain the origin of organisms.
 - iii) To facilitate the identification of unknown species.
 - iv) To identify medicinal plants.



University of Science and Technology, Meghalay

PAPER Code:

Instructions to Candidates

4. You may use some space for any rough notes or calculation on the answer booklet if you need. These rough notes, calculations must be scored out before submitting the answer

5. Do not bring any book or loose paper in the examination

7. Do not write anything on the question paper or blotting

paper or any pieces of paper while you are in the examination

8. Any act of indiscipline or misbehavior in the examination hall

9. No examinee is allowed to leave the examination hall until 30 minutes lapse after the commencement of the examination. 10. Additional answer sheet will be supplied after the main

6. Do not tear any page from the answer booklet.

will result in your expulsion.

1. This answer booklet has 4 pages. Please check before

writing whether it is complete or in good condition. 2. Do not write your name anywhere in the answer booklet.

3. Write legibly on both sides of the paper

SESSION: 2016-17 COURSE

SEMESTER

NAME OF THE PAPER:

eghalaya	1	Date Stamp:
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Page No.	Marks	Course
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Total		Paper Code
For Descrip Quest		
Question No.	Marks	

Question No

Total Grand Total